UNDP

UNITED NATIONS DEVELOPMENT PROGRAMME

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ENGLISH

APPROVAL OF UNDP ASSISTANCE TO A PROJECT OF
THE DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA

IPF:(1987-91) $17 300 000

(DRK/90/006)- Modernization of the Construction Design and Calculation Centre (CDCC) (Phase I)

Date of approval by the AC:[1/]	20 February 1991	
Expected duration:	Three years	
Proposed executing agency:	Government	
Government implementing agency:	Construction Design and Calculation Centre (CDCC)	
Proposed UNDP contribution:	$930 000	Source of funds: IPF
Total UNDP budget:	$930 000	

Project background

The large construction industry in the Democratic People's Republic of Korea currently relies heavily on labour intensive manual methods for design and construction activities. It is estimated that manual design based practice results in wastages of approximately 10,000 tons of steel and over 80,000 tons of cement annually. A major area of achieving economies in construction is through improving the efficiency of design and subsequent reduction of waste in the construction process. While Computer Aided Design (CAD) practices for construction are fairly well established and known in many countries, this technology has yet to be introduced to the Democratic People's Republic of Korea.

Computerization will facilitate more efficient and effective designs, faster clearances and replication of design work, safer structures, improved thermal performance, energy efficiency and more economical buildings as a result of comparative cost benefit analysis of specification alternatives. The main organization responsible for setting standard and evaluating all construction activities in the country is the Construction and Design Calculation Centre (CDCC). Additionally, there are over 300 construction design institutes in the Democratic People's Republic of Korea, of which 50 are recognized to be important. The Government's strategy has been appraised and endorsed by UNCHS; and the main thrust will be to strengthen human resource capabilities, modernize procedures systems and standard of these institutes. The improvements will be conducted in three phases that will be completed in 1999. The first phase is supported by UNDP assistance under this project.

[1/] This Fact Sheet reflects the status of the project/revision at the time it was approved by the Action Committee; modifications to the project/revision may have occurred subsequently.

Description of project

The project aims to strengthen national capacity to improve the performance of the construction industry through: (a) improved capabilities and facilities of the CDCC to act as the focal point for improving the architectural and structural methods in the construction industry of the country; and (b) establish within the CDCC the capacity of transferring computer based expertise and technology to other design institutes in the country. This will entail development, application and dissemination of computer assisted techniques within the CDCC.

Project activities will include: (a) building expertise in architectural planning and design, structural analysis design and drafting, building services and cost estimation; (b) establishing computer hardware and software facilities at the CDCC with customized application and specifications prepared and staff trained in operations and maintenance of the facilities; (c) improving capabilities in standard and special designs with manuals and reports prepared in standard designs including computer drafted details; and (d) identifying needs of computerization of at least three design institutes and setting up pilot computer units through the provision of technical experts, training activities and installation and operations of the technical equipment.

Inputs

UNDP will provide a total of 16 work-months of experts in the field of computer systems (six work-months), computer application (one work-month), architectural design (two work-months), structural design (two work-months), standard design (one work-month), building services (one work-month), water supply (one work-month), cost estimation (one work-month); five study tours abroad (7.5 work-months); 10 external fellowships (60 work-months); in-country training; technical equipment; and miscellaneous costs.

Financial data

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Personnel	280 000
Training	195 000
Equipment	430 000
Miscellaneous	25 000
Total	930 000

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